

REMARKS

This communication is considered fully responsive to the Office action mailed August 12, 2004. Claims 1-14 and 16-35 were examined. However, no claim 15 was presented in the original listing of claims. The Applicant acknowledges that the Office renumbered originally filed claims 16-35 as claims 15-34. All claim numbers referenced herein reflect the new claim numbers assigned by the Office.

Claims 4-7 have been indicated by the Office as allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim. The Applicant has amended claims 4-7 accordingly. Allowance of claims 4-7 is requested.

Claims 23-24 and 31-33 have been indicated by the Office as allowable if rewritten to overcome the rejections under 35 U.S.C. 112, second paragraph. The Applicant has amended claims 23-24 and 31-33 accordingly. Allowance of claims 23-24 and 31-33 is requested.

Claims 1-3, 8-22, 25-30, and 34 have been cancelled. Claims 35-43 have been added. Reexamination and reconsideration are requested.

Claim Objections

As discussed above, the Office objected to the mis-numbering of the originally filed claims – claim 15 was missing from the original listing of the claims. The Applicant acknowledges that claims 16-35 have been renumbered by the Office as claims 15-34. The dependency in claim 32 has been amended to reflect the renumbering.

The Office has objected to several claims for various informalities. Specifically, the Office objected to claim 9 because it is redundant with respect to claim 8, from which it depends. Accordingly, claim 9 has been canceled.

The Office objected to claim 12, suggesting that “the central group” should read “a central group”. The Applicant has canceled claim 12, so the objection is moot.

The Office objected to claim 17 because it is identical to claim 16. The Applicant has canceled claims 16-17, so the objection is moot.

Claim Rejections – 35 USC § 112

Claims 23-33 stand rejected under 35 U.S.C. § 112, second paragraph, as purportedly being indefinite for failure to particularly point out and distinctly claim the subject matter of the invention. The Applicant respectfully traverses the rejections.

The Office describes claims 23-26 as being purportedly unclear because they lack a proper antecedent basis for some of the terms. Claims 23-24 have been amended to clarify the antecedent basis of the claims, and claims 25-26 have been canceled.

The Office rejected claims 27, 29, and 31 as being purportedly unclear as they are drawn to methods but recite means. The Office has also rejected claims 28, 29, and 32 because they depend from claims 27, 29, and 31, respectively. Claims 27-30 have been canceled. Claim 31 has been amended to clarify the recited method.

Claim 33 was rejected for purportedly being indefinite as to the term “responses” and the terms |c₃|, etc. Claim 33 has been amended to clarify the recited method.

Accordingly, allowance of claims 23-24 and 31-33 is requested.

Drawings

The drawings were objected to under 37 CFR 1.83(a). Additional drawing sheets in compliance with 37 CFR 1.121(d) are submitted herewith. The Brief Description of the drawings and the Detailed Description have been amended to reference the added drawings.

Specification

The Office objected to the specification as purportedly failing to provide proper antecedent basis for claim 34. However, claim 34 has been canceled.

Nevertheless, new claims to an article of manufacture implemented as a computer program product have been added to the application. Therefore, the Applicant has amended the specification by inserting text from the original disclosure, and more specifically from the original claims, into the specification in support of the new claims. Therefore, the Applicant respectfully submits that proper antecedent basis is provided for the new claims.

Claim Rejections – 35 USC § 102

Claims 1, 27, and 29 stand rejected under 35 U.S.C. §102(b) as being purportedly anticipated by the article “Local Radial-Angular Transformation of Images” by Trifonov et al. (“Trifonov”). Without agreeing with the Office’s position, the Applicant has canceled claims 1, 27 and 29, so the Section 102 rejection is now moot.

Claim Rejections – 35 USC § 103

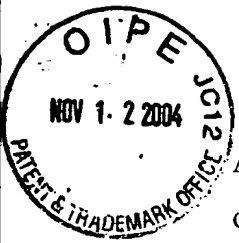
Claims 2-3, 8-22, 25-26, 28, 30, and 34 stand rejected under 35 U.S.C. § 103(a) as being purportedly unpatentable over Trifonov. Without agreeing with the Office’s position, the Applicant has canceled claims 2-3, 8-22, 25-26, 28, 30, and 34, so the Section 103 rejection is now moot.

Double Patenting

Claim 1 stands provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being purportedly unpatentable over claim 13 of co-pending Application No. 09/900,479. Without agreeing with the Office’s position, the Applicant has canceled claim 1, so the provisional rejection is now moot.

Allowable Subject Matter

The Office states that claims 4-7 would be allowable if rewritten in independent form including all of the limitations of the base claims and any intervening claims.



Accordingly, claims 4-7 have been written in independent form to include the limitations of claim 1. Therefore, allowance of claims 4-7 is respectfully requested.

The Office states that claims 23-24 and 31-32 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. § 112, second paragraph. As discussed previously, claims 23-24 and 31-33 have been amended to overcome the rejections under 35 U.S.C. § 112, second paragraph. Therefore, allowance of claims 23-24 and 31-33 is respectfully requested.

New Claims

Claims 35-43 have been added and are believed to be allowable for at least the same reasons that the Office asserted claims 4-7 and 23-24 would be allowable.

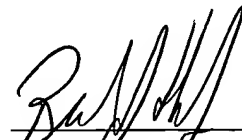
Conclusion

Based on the amendments and remarks herein, the Applicant respectfully requests prompt issuance of a notice of allowance for claims 4-7, 23-24, 31-33, and 35-43 in this matter.

Respectfully Submitted,

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By: _____


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